

0590
1119

#5 OIPE

P.5

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/825,561ADATE: 10/17/2001
TIME: 12:23:45Input Set : A:\00-22SEQ.txt
Output Set: N:\CRF3\10172001\I825561A.raw**ENTERED**

4 <110> APPLICANT: Sprecher, Cindy A.
 5 Novak, Julia E.
 6 West, James W.
 7 Presnell, Scott R.
 8 Holly, Richard D.
 9 Nelson, Andrew J.
 12 <120> TITLE OF INVENTION: SOLUBLE ZALPHA11 CYTOKINE RECEPTORS
 15 <130> FILE REFERENCE: 00-22
 C--> 17 <140> CURRENT APPLICATION NUMBER: US/09/825,561A
 C--> 17 <141> CURRENT FILING DATE: 2000-04-05
 17 <150> PRIOR APPLICATION NUMBER: US 60/194,731
 18 <151> PRIOR FILING DATE: 2000-04-05
 20 <150> PRIOR APPLICATION NUMBER: US 60/222,121
 21 <151> PRIOR FILING DATE: 2000-07-28
 23 <160> NUMBER OF SEQ ID NOS: 86
 25 <170> SOFTWARE: FastSEQ for Windows Version 3.0
 27 <210> SEQ ID NO: 1
 28 <211> LENGTH: 1614
 29 <212> TYPE: DNA
 30 <213> ORGANISM: Homo sapiens
 32 <220> FEATURE:
 33 <221> NAME/KEY: CDS
 34 <222> LOCATION: (1)...(1614)
 36 <400> SEQUENCE: 1

37	atg	ccg	cgt	ggc	tgg	gcc	gcc	ccc	ttg	ctc	ctg	ctg	ctg	ctc	cag	gga	48
38	Met	Pro	Arg	Gly	Trp	Ala	Ala	Pro	Leu	Leu	Leu	Leu	Leu	Leu	Gln	Gly	
39	1			5					10						15		
41	ggc	tgg	ggc	tgc	ccc	gac	ctc	gtc	tgc	tac	acc	gat	tac	ctc	cag	acg	96
42	Gly	Trp	Gly	Cys	Pro	Asp	Leu	Val	Cys	Tyr	Thr	Asp	Tyr	Leu	Gln	Thr	
43				20					25					30			
45	gtc	atc	tgc	atc	ctg	gaa	atg	tgg	aac	ctc	cac	ccc	agc	acg	ctc	acc	144
46	Val	Ile	Cys	Ile	Leu	Glu	Met	Trp	Asn	Leu	His	Pro	Ser	Thr	Leu	Thr	
47				35				40					45				
49	ctt	acc	tgg	caa	gac	cag	tat	gaa	gag	ctg	aag	gac	gag	gcc	acc	tcc	192
50	Leu	Thr	Trp	Gln	Asp	Gln	Tyr	Glu	Glu	Leu	Lys	Asp	Glu	Ala	Thr	Ser	
51		50				55				60							
53	tgc	agc	ctc	cac	agg	tcg	gcc	cac	aat	gcc	acg	cat	gcc	acc	tac	acc	240
54	Cys	Ser	Leu	His	Arg	Ser	Ala	His	Asn	Ala	Thr	His	Ala	Thr	Tyr	Thr	
55	65				70				75				80				
57	tgc	cac	atg	gat	gta	ttc	cac	ttc	atg	gcc	gac	gac	att	ttc	agt	gtc	288
58	Cys	His	Met	Asp	Val	Phe	His	Phe	Met	Ala	Asp	Asp	Ile	Phe	Ser	Val	
59				85				90					95				
61	aac	atc	aca	gac	cag	tct	ggc	aac	tac	tcc	cag	gag	tgt	ggc	agc	ttt	336
62	Asn	Ile	Thr	Asp	Gln	Ser	Gly	Asn	Tyr	Ser	Gln	Glu	Cys	Gly	Ser	Phe	
63				100				105					110				
65	ctc	ctg	gct	gag	agc	atc	aag	ccg	gct	ccc	cct	ttc	aac	gtg	act	gtg	384
66	Leu	Leu	Ala	Glu	Ser	Ile	Lys	Pro	Ala	Pro	Pro	Phe	Asn	Val	Thr	Val	

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Input Set : A:\00-22SEQ.txt

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67		115		120		125		
69	acc ttc tca gga cag tat aat atc tcc tgg cgc tca gat tac gaa gac							432
70	Thr Phe Ser Gly Gln Tyr Asn Ile Ser Trp Arg Ser Asp Tyr Glu Asp							
71		130		135		140		
73	cct gcc ttc tac atg ctg aag ggc aag ctt cag tat gag ctg cag tac							480
74	Pro Ala Phe Tyr Met Leu Lys Gly Lys Leu Gln Tyr Glu Leu Gln Tyr							
75	145		150		155		160	
77	agg aac cgg gga gac ccc tgg gct gtg agt ccg agg aga aag ctg atc							528
78	Arg Asn Arg Gly Asp Pro Trp Ala Val Ser Pro Arg Arg Lys Leu Ile							
79		165		170		175		
81	tca gtg gac tca aga agt gtc tcc ctc ctc ccc ctg gag ttc cgc aaa							576
82	Ser Val Asp Ser Arg Ser Val Ser Leu Leu Pro Leu Glu Phe Arg Lys							
83		180		185		190		
87	gac tcg agc tat gag ctg cag gtg cgg gca ggg ccc atg cct ggc tcc							624
88	Asp Ser Ser Tyr Glu Leu Gln Val Arg Ala Gly Pro Met Pro Gly Ser							
89		195		200		205		
91	tcc tac cag ggg acc tgg agt gaa tgg agt gac ccg gtc atc ttt cag							672
92	Ser Tyr Gln Gly Thr Trp Ser Glu Trp Ser Asp Pro Val Ile Phe Gln							
93		210		215		220		
95	acc cag tca gag gag tta aag gaa ggc tgg aac cct cac ctg ctg ctt							720
96	Thr Gln Ser Glu Glu Leu Lys Glu Gly Trp Asn Pro His Leu Leu Leu							
97	225		230		235		240	
99	ctc ctc ctg ctt gtc ata gtc ttc att cct gcc ttc tgg agc ctg aag							768
100	Leu Leu Leu Leu Val Ile Val Phe Ile Pro Ala Phe Trp Ser Leu Lys							
101		245		250		255		
103	acc cat cca ttg tgg agg cta tgg aag aag ata tgg gcc gtc ccc agc							816
104	Thr His Pro Leu Trp Arg Leu Trp Lys Lys Ile Trp Ala Val Pro Ser							
105		260		265		270		
107	cct gag cgg ttc ttc atg ccc ctg tac aag ggc tgc agc gga gac ttc							864
108	Pro Glu Arg Phe Phe Met Pro Leu Tyr Lys Gly Cys Ser Gly Asp Phe							
109		275		280		285		
111	aag aaa tgg gtg ggt gca ccc ttc act ggc tcc agc ctg gag ctg gga							912
112	Lys Lys Trp Val Gly Ala Pro Phe Thr Gly Ser Ser Leu Glu Leu Gly							
113		290		295		300		
115	ccc tgg agc cca gag gtg ccc tcc acc ctg gag gtg tac agc tgc cac							960
116	Pro Trp Ser Pro Glu Val Pro Ser Thr Leu Glu Val Tyr Ser Cys His							
117		305		310		315		320
119	cca cca cgg agc ccg gcc aag agg ctg cag ctc acg gag cta caa gaa							1008
120	Pro Pro Arg Ser Pro Ala Lys Arg Leu Gln Leu Thr Glu Leu Gln Glu							
121		325		330		335		
123	cca gca gag ctg gtg gag tct gac ggt gtg ccc aag ccc agc ttc tgg							1056
124	Pro Ala Glu Leu Val Glu Ser Asp Gly Val Pro Lys Pro Ser Phe Trp							
125		340		345		350		
127	ccg aca gcc cag aac tcg ggg ggc tca gct tac agt gag gag agg gat							1104
128	Pro Thr Ala Gln Asn Ser Gly Gly Ser Ala Tyr Ser Glu Glu Arg Asp							
129		355		360		365		
131	cgg cca tac ggc ctg gtg tcc att gac aca gtg act gtg cta gat gca							1152
132	Arg Pro Tyr Gly Leu Val Ser Ile Asp Thr Val Thr Val Leu Asp Ala							
133		370		375		380		

RAW SEQUENCE LISTING

DATE: 10/17/2001

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Input Set : A:\00-22SEQ.txt

Output Set: N:\CRF3\10172001\I825561A.raw

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135 gag ggg cca tgc acc tgg ccc tgc agc tgt gag gat gac ggc tac cca      1200
136 Glu Gly Pro Cys Thr Trp Pro Cys Ser Cys Glu Asp Asp Gly Tyr Pro
137 385                      390                      395                      400
139 gcc ctg gac ctg gat gct ggc ctg gag ccc agc cca ggc cta gag gac      1248
140 Ala Leu Asp Leu Asp Ala Gly Leu Glu Pro Ser Pro Gly Leu Glu Asp
141                      405                      410                      415
143 cca ctc ttg gat gca ggg acc aca gtc ctg tcc tgt ggc tgt gtc tca      1296
144 Pro Leu Leu Asp Ala Gly Thr Thr Val Leu Ser Cys Gly Cys Val Ser
145                      420                      425                      430
147 gct ggc agc cct ggg cta gga ggg ccc ctg gga agc ctc ctg gac aga      1344
148 Ala Gly Ser Pro Gly Leu Gly Gly Pro Leu Gly Ser Leu Leu Asp Arg
149                      435                      440                      445
151 cta aag cca ccc ctt gca gat ggg gag gac tgg gct ggg gga ctg ccc      1392
152 Leu Lys Pro Pro Leu Ala Asp Gly Glu Asp Trp Ala Gly Gly Leu Pro
153                      450                      455                      460
155 tgg ggt ggc cgg tca cct gga ggg gtc tca gag agt gag gcg ggc tca      1440
156 Trp Gly Gly Arg Ser Pro Gly Gly Val Ser Glu Ser Glu Ala Gly Ser
157 465                      470                      475                      480
159 ccc ctg gcc ggc ctg gat atg gac acg ttt gac agt ggc ttt gtg ggc      1488
160 Pro Leu Ala Gly Leu Asp Met Asp Thr Phe Asp Ser Gly Phe Val Gly
161                      485                      490                      495
163 tct gac tgc agc agc cct gtg gag tgt gac ttc acc agc ccc ggg gac      1536
164 Ser Asp Cys Ser Ser Pro Val Glu Cys Asp Phe Thr Ser Pro Gly Asp
165                      500                      505                      510
167 gaa gga ccc ccc cgg agc tac ctc cgc cag tgg gtg gtc att cct ccg      1584
168 Glu Gly Pro Pro Arg Ser Tyr Leu Arg Gln Trp Val Val Ile Pro Pro
169                      515                      520                      525
173 cca ctt tcg agc cct gga ccc cag gcc agc      1614
174 Pro Leu Ser Ser Pro Gly Pro Gln Ala Ser
175 530                      535
178 <210> SEQ ID NO: 2
179 <211> LENGTH: 538
180 <212> TYPE: PRT
181 <213> ORGANISM: Homo sapiens
183 <400> SEQUENCE: 2
184 Met Pro Arg Gly Trp Ala Ala Pro Leu Leu Leu Leu Leu Leu Gln Gly
185 1 5 10 15
186 Gly Trp Gly Cys Pro Asp Leu Val Cys Tyr Thr Asp Tyr Leu Gln Thr
187 20 25 30
188 Val Ile Cys Ile Leu Glu Met Trp Asn Leu His Pro Ser Thr Leu Thr
189 35 40 45
190 Leu Thr Trp Gln Asp Gln Tyr Glu Glu Leu Lys Asp Glu Ala Thr Ser
191 50 55 60
192 Cys Ser Leu His Arg Ser Ala His Asn Ala Thr His Ala Thr Tyr Thr
193 65 70 75 80
194 Cys His Met Asp Val Phe His Phe Met Ala Asp Asp Ile Phe Ser Val
195 85 90 95
196 Asn Ile Thr Asp Gln Ser Gly Asn Tyr Ser Gln Glu Cys Gly Ser Phe
197 100 105 110

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RAW SEQUENCE LISTING

DATE: 10/17/2001

PATENT APPLICATION: US/09/825,561A

TIME: 12:23:45

Input Set : A:\00-22SEQ.txt

Output Set: N:\CRF3\10172001\I825561A.raw

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198 Leu Leu Ala Glu Ser Ile Lys Pro Ala Pro Pro Phe Asn Val Thr Val
199      115      120      125
200 Thr Phe Ser Gly Gln Tyr Asn Ile Ser Trp Arg Ser Asp Tyr Glu Asp
201      130      135      140
202 Pro Ala Phe Tyr Met Leu Lys Gly Lys Leu Gln Tyr Glu Leu Gln Tyr
203 145      150      155      160
204 Arg Asn Arg Gly Asp Pro Trp Ala Val Ser Pro Arg Arg Lys Leu Ile
205      165      170      175
206 Ser Val Asp Ser Arg Ser Val Ser Leu Leu Pro Leu Glu Phe Arg Lys
207      180      185      190
208 Asp Ser Ser Tyr Glu Leu Gln Val Arg Ala Gly Pro Met Pro Gly Ser
209      195      200      205
210 Ser Tyr Gln Gly Thr Trp Ser Glu Trp Ser Asp Pro Val Ile Phe Gln
211      210      215      220
212 Thr Gln Ser Glu Glu Leu Lys Glu Gly Trp Asn Pro His Leu Leu Leu
213 225      230      235      240
214 Leu Leu Leu Leu Val Ile Val Phe Ile Pro Ala Phe Trp Ser Leu Lys
215      245      250      255
216 Thr His Pro Leu Trp Arg Leu Trp Lys Lys Ile Trp Ala Val Pro Ser
217      260      265      270
218 Pro Glu Arg Phe Phe Met Pro Leu Tyr Lys Gly Cys Ser Gly Asp Phe
219      275      280      285
220 Lys Lys Trp Val Gly Ala Pro Phe Thr Gly Ser Ser Leu Glu Leu Gly
221      290      295      300
222 Pro Trp Ser Pro Glu Val Pro Ser Thr Leu Glu Val Tyr Ser Cys His
223 305      310      315      320
224 Pro Pro Arg Ser Pro Ala Lys Arg Leu Gln Leu Thr Glu Leu Gln Glu
225      325      330      335
226 Pro Ala Glu Leu Val Glu Ser Asp Gly Val Pro Lys Pro Ser Phe Trp
227      340      345      350
228 Pro Thr Ala Gln Asn Ser Gly Gly Ser Ala Tyr Ser Glu Glu Arg Asp
229      355      360      365
230 Arg Pro Tyr Gly Leu Val Ser Ile Asp Thr Val Thr Val Leu Asp Ala
231      370      375      380
232 Glu Gly Pro Cys Thr Trp Pro Cys Ser Cys Glu Asp Asp Gly Tyr Pro
233 385      390      395      400
234 Ala Leu Asp Leu Asp Ala Gly Leu Glu Pro Ser Pro Gly Leu Glu Asp
235      405      410      415
236 Pro Leu Leu Asp Ala Gly Thr Thr Val Leu Ser Cys Gly Cys Val Ser
237      420      425      430
238 Ala Gly Ser Pro Gly Leu Gly Gly Pro Leu Gly Ser Leu Leu Asp Arg
239      435      440      445
240 Leu Lys Pro Pro Leu Ala Asp Gly Glu Asp Trp Ala Gly Gly Leu Pro
241      450      455      460
242 Trp Gly Gly Arg Ser Pro Gly Gly Val Ser Glu Ser Glu Ala Gly Ser
243 465      470      475      480
244 Pro Leu Ala Gly Leu Asp Met Asp Thr Phe Asp Ser Gly Phe Val Gly
245      485      490      495
246 Ser Asp Cys Ser Ser Pro Val Glu Cys Asp Phe Thr Ser Pro Gly Asp

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RAW SEQUENCE LISTING

DATE: 10/17/2001

PATENT APPLICATION: US/09/825,561A

TIME: 12:23:45

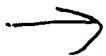
Input Set : A:\00-22SEQ.txt

Output Set: N:\CRF3\10172001\I825561A.raw

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247          500          505          510
248 Glu Gly Pro Pro Arg Ser Tyr Leu Arg Gln Trp Val Val Ile Pro Pro
249          515          520          525
250 Pro Leu Ser Ser Pro Gly Pro Gln Ala Ser
251          530          535
253 <210> SEQ ID NO: 3
254 <211> LENGTH: 696
255 <212> TYPE: DNA
256 <213> ORGANISM: Homo sapiens
259 <220> FEATURE:
260 <221> NAME/KEY: CDS
261 <222> LOCATION: (1)...(696)
263 <400> SEQUENCE: 3
264 ctg aac acg aca att ctg acg ccc aat ggg aat gaa gac acc aca gct      48
265 Leu Asn Thr Thr Ile Leu Thr Pro Asn Gly Asn Glu Asp Thr Thr Ala
266 1          5          10          15
268 gat ttc ttc ctg acc act atg ccc act gac tcc ctc agt gtt tcc act      96
269 Asp Phe Phe Leu Thr Thr Met Pro Thr Asp Ser Leu Ser Val Ser Thr
270          20          25          30
272 ctg ccc ctc cca gag gtt cag tgt ttt gtg ttc aat gtc gag tac atg      144
273 Leu Pro Leu Pro Glu Val Gln Cys Phe Val Phe Asn Val Glu Tyr Met
274          35          40          45
276 aat tgc act tgg aac agc agc tct gag ccc cag cct acc aac ctc act      192
277 Asn Cys Thr Trp Asn Ser Ser Ser Glu Pro Gln Pro Thr Asn Leu Thr
278          50          55          60
280 ctg cat tat tgg tac aag aac tcg gat aat gat aaa gtc cag aag tgc      240
281 Leu His Tyr Trp Tyr Lys Asn Ser Asp Asn Asp Lys Val Gln Lys Cys
282 65          70          75          80
284 agc cac tat cta ttc tct gaa gaa atc act tct ggc tgt cag ttg caa      288
285 Ser His Tyr Leu Phe Ser Glu Glu Ile Thr Ser Gly Cys Gln Leu Gln
286          85          90          95
288 aaa aag gag atc cac ctc tac caa aca ttt gtt gtt cag ctc cag gac      336
289 Lys Lys Glu Ile His Leu Tyr Gln Thr Phe Val Val Gln Leu Gln Asp
290          100          105          110
292 cca cgg gaa ccc agg aga cag gcc aca cag atg cta aaa ctg cag aat      384
293 Pro Arg Glu Pro Arg Arg Gln Ala Thr Gln Met Leu Lys Leu Gln Asn
294          115          120          125
296 ctg gtg atc ccc tgg gct cca gag aac cta aca ctt cac aaa ctg agt      432
297 Leu Val Ile Pro Trp Ala Pro Glu Asn Leu Thr Leu His Lys Leu Ser
298          130          135          140
302 gaa tcc cag cta gaa ctg aac tgg aac aac aga ttc ttg aac cac tgt      480
303 Glu Ser Gln Leu Glu Leu Asn Trp Asn Asn Arg Phe Leu Asn His Cys
304 145          150          155          160
306 ttg gag cac ttg gtg cag tac cgg act gac tgg gac cac agc tgg act      528
307 Leu Glu His Leu Val Gln Tyr Arg Thr Asp Trp Asp His Ser Trp Thr
308          165          170          175
310 gaa caa tca gtg gat tat aga cat aag ttc tcc ttg cct agt gtg gat      576
311 Glu Gln Ser Val Asp Tyr Arg His Lys Phe Ser Leu Pro Ser Val Asp
312          180          185          190

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 Use of n and / or Xaa has been detected in the
 Sequence Listing. Review the Sequence Listing
 to ensure a corresponding explanation is present
 in the <220> to <223> fields of each sequence
 using n or Xaa.

VERIFICATION SUMMARY

DATE: 10/17/2001

PATENT APPLICATION: US/09/825,561A

TIME: 12:23:46

Input Set : A:\00-22SEQ.txt

Output Set: N:\CRF3\10172001\I825561A.raw

L:17 M:270 C: Current Application Number differs, Replaced Current Application No

L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:484 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7

L:485 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7

L:486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7

L:487 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7

L:488 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7

L:489 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7

L:490 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7

L:491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7

L:492 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7

L:493 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7

L:494 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7

L:510 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8

L:511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8

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L:516 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8

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L:521 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8

L:850 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13

L:2392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:2393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:2394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

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L:2398 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:2399 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:2400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:2401 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:2402 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:2403 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:2404 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:2419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67

L:2578 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71

L:2581 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71